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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/609,185	06/30/2000	Hiroyuki Fujita	S004-4040	2679

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EXAMINER

NGUYEN, HOAN C

ART UNIT PAPER NUMBER

2871

DATE MAILED: 02/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/609,185

Applicant(s)

FUJITA ET AL.

Examiner

HOAN C. NGUYEN

Art Unit

2871

MW

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-5, 10 is/are pending in the application.
- 4a) Of the above claim(s) 1, 4, 11-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 2-5, 10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

DETAILED ACTION

Response to Amendment

Applicant's arguments with respect to Amended claims 5 and 10 have been considered but are moot in view of the new ground(s) of rejection. Therefore, this is Final action.

Applicant cancelled claims 1, 6-9 and 11-20. Only claims 2-5 is pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 2-5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii et al. (US005914763A) in view of MATSUSHITA (JP11015009A).

Fujii et al. (Figs. 1, 4-7, 11-13) disclose a display device comprising:

- an insulating/glass substrate 311 on which a group of display electrodes 40, a group of wiring electrodes 41 and a group of connection pads are formed, the wiring electrodes being connected to the connection pads and the display electrodes and being arranged in at least one group;
- an opposing substrate 312 opposed to the insulating substrate;

- a display material contained in a spacing between the insulating substrate and the opposing substrate in a sealed manner;
- a dummy electrode 45 provided on the insulating substrate adjacent an outermost wiring electrode of each group of wiring electrodes, the dummy electrode not being connected to any of the connection pads;

wherein

- the display electrodes are transparent electrodes,
- a spacing between the dummy electrode and the outer wiring electrode is equal to a spacing between the outer wiring electrode and a wiring electrode directly adjacent thereto (claim 3).
- the wiring electrodes comprise a plurality of groups of wiring electrode each group having a plurality of wiring electrodes; and wherein a dummy electrode is provided adjacent to outermost wiring electrodes in each of the groups of wiring electrodes (claim 4).
- the dummy electrode is formed parallel to the outermost wiring electrode (claim 5).

However, Fujii fails to disclose (a) connection pads are formed and the wiring electrodes being connected to the connection pad. (b) the wiring electrodes are plated by nonelectrolytic plating of only portions of the transparent electrodes extending beyond a side edge of the opposing substrate.

It is conventional art that to formed connection pads, which are connected wiring electrodes for electrical contact with external driving chip circuit such as PCB or TAB. MATSUSHITA teaches the wiring electrodes are plated by nonelectrolytic plating of only portions of the transparent electrodes extending beyond a side edge of the opposing substrate for providing a display device high in reliability. It is obvious in skill of art that since a dummy electrode is adjacent or next to the wiring electrodes, the dummy electrode also are plated by non-electrolytic nickel plating for providing a display device high in reliability (claim 10).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify a display device as Fujii disclosed with (a) a connection pads are formed and the wiring electrodes being connected to the connection pad; (b) the wiring electrodes are plated by nonelectrolytic plating of only portions of the transparent electrodes extending beyond a side edge of the opposing substrate for providing a display device high in reliability.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 2871

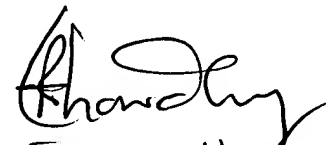
TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703) 306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN
Examiner
Art Unit 2871

Chn


T. Chowdhury
Primary Examiner